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1**ABSTRACT**

The invention relates to a method for producing oligosaccharides, comprising of selecting a gene which codes for an enzyme which is capable of converting sucrose into an oligosaccharide; linking the gene to suitable transcription-initiation and transcription-termination signals in order to provide an expression construct; transforming a suitable plant cell with the expression construct; regenerating a transgenic plant from the transformed plant cell; culturing the transgenic plant under conditions enabling the expression and activity of the enzyme; and isolating the oligosaccharides from the transgenic plant. The invention further relates to the product obtained by means of the method and to the use thereof, in addition to transgenic plants and parts thereof which are capable of producing oligosaccharides.